

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended): A device for regulating the temperature of a heating wire, the device comprising:

an electronic switch connected in series with the heating wire,

means for controlling the electronic switch,

wherein the device also comprises means for controlling a switching time of the electronic switch; and in that

wherein the control means for controlling a switch time of the electric switch control the a voltage across the terminals of the switch as a function of a setpoint voltage defining the switching time.

2. (Currently Amended): The device as claimed in claim 1, comprising: means for measuring the a temperature of the heating wire, wherein the control means turn the electronic switch on and off as a function of the temperature of the heating wire.

3. (Currently Amended): The device as claimed in claim 2, wherein the means for measuring the temperature of the heating wire comprise means for comparing the a voltage present at the a common point between the electronic switch and the heating wire with a reference voltage.

4. (Currently Amended): The device as claimed in claim 1, wherein the control means define a switching time that is longer than the a normal switching time of the electronic switch taken in isolation.

5. (Currently Amended): The device as claimed in claim 1, wherein the control means comprise an operational amplifier, whereof a first input is connected to the a common point of the heating wire and of the electronic switch, whereof a second input

receives the setpoint voltage and whereof ~~the an~~ output controls ~~the a~~ turning-on and ~~the a~~ turning-off of the electronic switch.

6. (Currently Amended): The device as claimed in claim 2, wherein the control means define a switching time longer than ~~the a~~ normal switching time of the electronic switch taken in isolation.

7. (Currently Amended): The device as claimed in claim 3, wherein the control means define a switching time longer than ~~the a~~ normal switching time of the electronic switch taken in isolation.

8. (Currently Amended): The device as claimed in claim 2, wherein the control means comprise an operational amplifier, whereof a first input is connected to ~~the a~~ common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof ~~the an~~ output controls the turning-on and the turning-off of the electronic switch.

9. (Currently Amended): The device as claimed in claim 3, wherein the control means comprise an operational amplifier, whereof a first input is connected to the common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof ~~the an~~ output controls the turning-on and the turning-off of the electronic switch.

10. (Currently Amended): The device as claimed in claim 4, wherein the control means comprise an operational amplifier, whereof a first input is connected to ~~the a~~ common point of the heating wire and of the electronic switch, whereof a second input receives the setpoint voltage and whereof ~~the an~~ output controls the turning-on and the turning-off of the electronic switch.